

U. S. DEPARTMENT OF AGRICULTURE  
WEATHER BUREAU  
CHARLES F. MARVIN, Chief.

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ANNUAL  
METEOROLOGICAL  
SUMMARY  
WITH COMPARATIVE DATA

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San Francisco, California

1923

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COMPILED UNDER THE DIRECTION OF  
E. A. BEALS  
METEOROLOGIST

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SAN FRANCISCO, CAL.  
U. S. WEATHER BUREAU  
JANUARY 25, 1924.

**Annual Meteorological Summary.**  
SAN FRANCISCO, CAL., YEAR 1928.

MONTH.	TEMPERATURE. (Degrees Fahrenheit.)						Relative humidity (per cent).	PRECIPITATION. (In. and hundredths)			WIND.			NUMBER OF DAYS WITH—													
	MEAN.		EXTREMES.		Total.	Maximum in 24 hrs.		Date.	Snowfall.	Average hourly velocity.	Prevailing direction.	MAXIMUM (For 5 Minutes)		Gales (40 miles per hour or over).	Clear.	Partly cloudy.	Cloudy.	Precipitation (0.01 inch or over).	Thunderstorms.	Fog, dense.	Snow (1 in. or over)	Max. Temp.	Min. Temp.				
	Maximum.	Minimum.	Monthly.	Maximum.	Date.	Minimum.				Velocity.	Direction.	Date.	Gales (40 miles per hour or over).							45° or below.	50° or above.	55° or below.	60° or above.				
January.....	53.1	43.1	48.1	58	17	36	90	81	2.84	0.82	23-24	0	53	6.4	n.	26	28	0	10	7	14	11	23	23			
February.....	59.0	48.3	52.2	73	27	38	95	69	0.77	0.65	10-11	0	79	7.2	w.	32	26	0	14	10	14	12	55	55			
March.....	64.9	48.6	56.8	84	27	44	95	63	0.03	0.02	2	0	86	8.4	w.	35	14	0	23	5	7	2	2	2			
April.....	62.5	49.7	56.1	79	14	46	93	77	3.92	2.05	3-4	0	73	9.3	w.	35	20	0	16	7	1	0	0	0			
May.....	64.1	50.4	57.2	81	14	42	92	76	0.06	0.06	28-29	0	82	11.7	w.	34	12	0	23	1	1	0	0	0			
June.....	63.1	51.8	57.2	69	24	49	93	79	0.06	0.05	22-23	0	69	11.6	w.	36	11	0	12	7	6	2	0	0			
July.....	67.4	54.2	60.8	82	27	51	91	79	0	0	0	0	80	10.9	w.	34	8	0	24	12	12	5	0	0			
August.....	68.1	55.3	61.7	83	25	52	97	83	0.01	0.01	27	0	71	10.9	w.	32	14	0	14	12	6	5	1	1			
September.....	71.6	56.3	64.0	87	5	52	10	76	0.44	0.43	24-25	0	81	8.8	sw.	46	17	1	21	5	4	3	7	4			
October.....	69.6	55.3	62.4	86	19	50	28	71	0.46	0.27	6	0	74	7.7	w.	29	6	0	15	9	7	5	0	0			
November.....	68.1	53.6	60.8	78	15	51	25	71	0.49	0.29	29	0	76	5.7	w.	58	1	18	8	4	4	2	0	0			
December.....	56.5	45.6	51.0	65	10	42	28	70	1.91	1.18	13	0	72	8.1	n.	64	ne.	1	1	15	11	4	3	2	0		
Year.....	64.0	50.7	57.4	87	Sept.	5	36	Jan.	76	10.99	2.05	3-4	0	75	8.9	w.	64	ne.	Dec.	1	3	205	99	61	48	2	23
																							16	17	52	12	

† Also on other dates.

**GENERAL SUMMARY.**

Subnormal precipitation featured the weather in San Francisco during 1923. The first three and the last three months were unusually dry, whereas they are generally the wettest months of the year. Only in two months, April and September, was the precipitation above normal. The total precipitation was 10.99 inches, as compared with a normal of 22.27 inches. It was the driest year since 1917, when 9.00 inches fell, which is the least annual amount on record. Cold mornings and warm afternoons were of frequent occurrence, but no temperature records were broken. Seven months in the year had a mean temperature above the average and the annual mean temperature was also somewhat above the average. There was more sunshine than usual. On the night of November 30th and the morning of December 1st, a severe windstorm occurred, a maximum velocity of 64 miles per hour from the northeast being reached, which equalled the highest wind velocity ever recorded in San Francisco since the establishment of the Weather Bureau. Considerable damage resulted to property in the city and to shipping in the harbor. Two thunderstorms occurred in August, but they occasioned no damage. E.E.E.

**MISCELLANEOUS DATA FOR 1923.**

*Location of Office, 1500 Merchants Exchange Building, 465 California Street.*

*Latitude 37° 48' North. Longitude 122° 26' West.*

*Standard of time in local use is 120th M.; local mean time is 10 minutes slower.*

**Barometric Pressure (Sea Level).**

[*Elevation of barometers above sea level, 203 feet; above ground, 189 feet.*]

Mean, 30.04 inches; highest, 30.41 inches, December 9; lowest, 29.39 inches, January 22.

**Temperature.**

[*Elevation of thermometers above ground, 202 feet.*]

Greatest daily range, 31°; from 77° to 46°, on March 25.

Least daily range, 3°; from 54° to 51°, on January 6.

Greatest monthly range, 40°, in March.

Least monthly range, 20°, in June.

Highest mean of three consecutive days, 71°, October 18-20.

Lowest mean of three consecutive days, 42°, January 29-31.

**Precipitation.**

[*Elevation of rain gage above ground, 202 feet.*]

Longest period without .01 or more precipitation, 63 days, June 24 to August 25, inclusive.

Longest period with .01 or more precipitation, 6 days, March 31 to April 5, inclusive.

Hail: February 8.

**Wind.**

[*Elevation of anemometer above ground, 243 feet.*]

Prevailing direction, west. Average hourly velocity, 8.9 miles. Maximum velocity, 64 miles per hour from the northeast on December 1.

**Other Miscellaneous Data.**

Last frost in spring, February 14.

First frost in autumn, none.

Killing frost, none.

## COMPARATIVE DATA.

Monthly and Annual Mean Temperatures.

Year.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An'l.
1871.....		51.3	53.3	54.3	56.9	56.6	57.9	60.4	61.8	55.1	52.9	52.9	.....
1872.....	52.2	54.2	54.3	53.4	56.0	59.8	57.9	59.8	59.3	58.8	56.0	52.1	56.2
1873.....	54.6	56.9	54.5	54.6	55.4	57.1	58.1	59.5	58.3	59.7	57.7	50.7	55.9
1874.....	49.3	51.2	50.9	54.9	57.6	59.1	57.8	59.0	61.4	59.8	56.1	50.3	55.6
1875.....	49.0	52.0	51.8	55.4	57.2	59.4	58.8	58.8	59.2	62.0	57.4	51.4	56.0
1876.....	48.8	52.8	52.2	55.4	56.8	61.4	59.1	59.6	61.5	59.9	58.0	53.0	56.6
1877.....	54.3	55.8	57.2	54.4	56.2	62.0	60.8	59.8	62.5	59.2	57.2	52.7	57.7
1878.....	52.8	53.3	53.9	56.0	58.0	58.8	58.6	59.1	60.2	61.6	57.1	51.6	56.9
1879.....	48.8	54.6	57.2	56.5	56.4	60.2	58.7	60.5	61.0	61.0	55.0	50.0	56.7
1880.....	48.0	49.8	49.4	50.3	57.7	57.2	58.8	59.1	59.9	59.8	54.2	52.2	54.9
1881.....	54.0	55.3	54.4	57.9	58.6	58.6	59.7	58.8	59.7	56.6	55.1	51.0	56.6
1882.....	49.4	48.8	58.4	53.0	57.0	57.9	59.5	58.6	59.8	58.8	53.2	52.8	55.2
1883.....	47.0	48.8	54.0	53.2	58.0	61.4	59.8	59.2	63.1	57.9	54.1	50.8	55.6
1884.....	50.6	50.8	54.5	56.0	59.4	60.2	61.4	60.0	59.6	58.2	57.4	52.8	56.7
1885.....	51.1	55.3	57.7	58.2	58.1	57.8	61.6	59.6	61.8	60.7	57.8	54.0	57.8
1886.....	51.2	56.8	58.6	55.4	59.1	59.4	60.3	60.6	62.4	58.6	56.8	53.6	57.3
1887.....	52.6	47.8	55.8	55.8	57.0	59.4	56.6	57.8	62.0	64.2	56.4	52.2	56.5
1888.....	46.7	53.9	53.4	57.3	56.9	62.4	61.4	60.5	62.6	61.6	57.0	53.2	57.3
1889.....	50.4	54.0	57.2	58.8	58.8	60.2	58.8	60.4	64.6	61.8	58.6	51.3	57.9
1890.....	46.2	49.1	53.8	54.8	59.8	59.2	59.3	61.4	60.4	62.4	59.0	49.8	56.3
1891.....	52.2	51.2	55.0	53.4	55.7	60.2	59.4	61.5	59.7	58.6	49.6	56.6	.....
1892.....	51.7	52.4	54.2	53.1	58.0	56.8	58.1	59.1	60.2	59.6	56.9	51.1	56.0
1893.....	47.4	50.3	51.2	52.4	55.8	56.5	56.6	56.6	59.3	57.6	55.6	52.4	54.3
1894.....	47.7	48.4	50.6	55.2	55.4	55.9	56.4	59.2	63.4	59.6	59.4	49.7	55.1
1895.....	48.6	53.8	52.2	54.8	57.6	58.7	58.4	58.4	60.7	58.8	56.2	48.6	55.6
1896.....	52.2	55.3	54.3	51.6	56.3	57.2	59.4	59.5	59.6	58.8	53.4	52.8	55.9
1897.....	48.6	50.7	48.9	57.4	57.4	58.9	58.2	57.4	60.8	58.4	53.1	50.7	55.0
1898.....	46.7	52.6	51.2	54.4	52.6	59.0	56.2	57.0	59.0	61.2	55.4	49.7	54.6
1899.....	53.0	51.6	52.2	54.6	52.6	56.9	55.9	58.3	58.2	59.3	56.8	49.6	54.9
1900.....	50.7	53.6	55.2	54.0	57.0	57.6	58.2	59.7	63.3	58.8	56.3	50.2	56.2
1901.....	49.8	52.2	55.8	51.8	53.9	56.7	55.6	56.4	58.5	61.8	57.2	52.9	55.2
1902.....	46.7	52.9	51.6	54.4	55.5	56.9	59.2	60.6	61.9	59.3	54.8	50.6	55.4
1903.....	47.9	48.9	52.2	54.0	55.2	58.5	57.2	57.6	61.0	62.0	56.6	52.4	55.3
1904.....	50.6	50.8	51.8	56.8	59.0	59.2	57.1	57.1	61.0	62.0	55.0	50.6	56.4
1905.....	51.3	51.0	57.0	56.4	55.5	56.0	59.5	58.4	60.4	60.4	56.2	50.7	56.3
1906.....	51.6	55.2	54.0	56.4	56.2	59.4	57.6	57.9	60.0	61.7	55.4	49.6	56.2
1907.....	47.1	54.9	51.0	56.8	56.4	57.1	58.0	59.3	60.6	60.6	57.8	52.4	56.0
1908.....	50.8	50.9	54.8	56.4	55.4	55.4	57.3	57.4	60.5	58.8	55.4	47.0	55.0
1909.....	51.5	51.3	51.8	56.6	54.5	56.1	57.8	57.4	61.6	59.4	54.8	49.2	55.2
1910.....	46.4	50.4	54.9	57.1	58.7	55.9	56.4	56.5	57.6	61.2	54.8	53.0	55.2
1911.....	51.0	49.3	49.2	53.6	55.6	55.0	56.4	56.5	60.0	60.9	57.3	51.7	55.2
1912.....	51.8	54.6	52.4	52.8	57.2	60.4	57.9	59.9	63.4	60.0	56.6	51.6	56.6
1913.....	47.4	52.4	52.6	55.4	56.6	58.2	60.6	62.1	61.6	61.5	55.2	50.6	56.4
1914.....	51.5	54.0	58.4	58.2	56.2	55.6	57.0	58.2	60.8	62.0	59.0	48.7	56.7
1915.....	50.8	52.8	57.9	57.1	57.6	58.9	60.2	61.3	62.4	61.3	56.1	52.1	57.4
1916.....	47.0	55.8	56.6	57.6	55.8	57.4	60.0	58.6	62.2	56.9	54.4	48.9	55.9
1917.....	47.6	52.0	51.7	55.1	54.0	58.6	53.8	57.6	64.0	62.3	58.7	54.6	56.3
1918.....	52.7	51.8	54.9	57.2	54.6	59.2	58.8	60.9	62.2	64.0	55.6	50.2	56.8
1919.....	51.2	51.6	52.6	56.0	57.2	57.8	57.0	58.4	62.0	60.7	56.0	48.8	55.8
1920.....	52.2	52.8	52.6	54.9	55.8	58.6	60.2	57.3	60.1	60.4	55.4	51.0	56.1
1921.....	49.5	52.9	54.6	55.0	54.4	61.4	59.8	59.6	63.3	61.5	57.8	52.9	56.9
1922.....	46.8	50.2	52.4	53.5	58.0	60.0	60.2	60.4	63.4	60.6	54.3	50.6	55.9
1923.....	48.1	52.2	56.8	56.1	57.2	57.2	60.8	61.7	64.0	62.4	60.8	51.0	57.4
Means.....	49.9	52.3	53.7	55.2	56.5	58.5	58.5	59.1	61.2	60.3	56.4	51.2	56.1

## TEMPERATURE EXTREMES.

Mar. 1, 1871 to Dec. 31, 1923.

MONTH.	Maxi-mum.	Year.	Day.	Min-i-mum.	Year.	Day.
January.....	78	1899	26	20	1888	15
February.....	80	1899	18	33	1887	5
March.....	86	1914	18	33	1896	3
April.....	88	1888	14	40	1891	7
May.....	97	1887	28	42	1906	16
June.....	100	1891	29	46	1908	4
July.....	98	1905	7	47	1893	31
August.....	92	1891	22	46	1903	8
September.....	*101	1913	16	47	1900	30
October.....	96	1917	3	45	1881	14
November.....	83	1895	16	38	1919	27
December.....	72	1893	8	34	1879	24

\* 101.0° in 1904; 101.2° in 1913.

## MEAN MAXIMUM TEMPERATURE.

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1874.....					65.8	63.9	64.9	69.1	64.7	60.3	55.1		
1875.....	54.0	57.1	57.9	62.2	63.9	65.8	63.5	63.9	64.2	68.4	61.2	55.4	61.5
1876.....	53.1	58.2	63.6	60.9	63.3	68.4	64.8	65.2	67.6	64.6	63.6	59.1	62.3
1877.....	59.7	61.2	62.8	59.6	61.9	69.4	66.6	65.4	70.0	64.9	62.0	56.8	63.4
1878.....	56.9	57.4	60.7	61.3	64.0	64.6	63.7	64.1	66.3	68.0	61.1	56.8	62.2
1879.....	55.5	59.6	62.6	62.8	62.0	67.0	64.2	66.5	66.4	67.5	59.7	54.2	62.2
1880.....	52.4	54.6	55.4	58.7	61.4	63.3	64.2	64.6	64.9	66.4	60.4	56.8	60.5
1881.....	58.6	59.9	60.7	63.6	64.3	64.3	64.2	65.6	61.6	60.4	54.2	62.0	
1882.....	53.5	58.3	59.1	58.2	58.1	62.9	64.8	68.5	65.7	63.9	57.4	57.3	60.2
1883.....	51.5	54.3	58.5	58.3	64.0	67.6	64.5	64.4	67.8	63.0	58.7	55.5	60.7
1884.....	54.6	54.3	59.3	61.2	65.3	65.2	67.6	63.3	64.9	64.0	62.3	56.9	61.6
1885.....	55.1	60.2	63.4	63.3	63.5	62.8	67.1	64.7	68.5	66.2	61.7	59.4	63.0
1886.....	56.5	63.8	60.7	61.7	66.3	67.8	67.6	66.8	68.6	66.1	63.7	58.9	64.0
1887.....	58.5	58.4	64.0	63.2	60.4	67.1	62.4	64.6	70.6	73.9	63.2	58.0	63.3
1888.....	51.7	60.8	60.1	55.8	62.9	68.9	68.4	68.4	70.5	69.4	62.8	57.2	63.9
1889.....	56.5	61.2	63.5	65.0	64.5	66.3	65.1	67.7	73.4	68.0	64.9	55.6	64.3
1890.....	51.1	55.0	60.5	61.6	67.2	66.9	67.1	68.4	66.8	71.8	67.4	54.8	63.2
1891.....	59.2	57.1	62.2	60.4	60.9	68.6	66.2	69.3	68.2	66.5	65.6	54.3	63.2
1892.....	57.5	57.4	60.1	59.6	64.8	62.9	64.2	65.5	66.1	66.7	63.7	56.4	62.1
1893.....	53.0	56.2	56.2	57.8	62.0	63.7	63.3	62.2	64.7	63.9	61.3	56.9	60.1
1894.....	52.6	53.4	58.4	62.6	61.1	61.3	62.4	62.2	71.3	65.5	67.2	63.4	61.0
1895.....	53.0	47.4	57.1	60.4	63.9	65.8	63.4	63.5	67.2	65.5	62.4	53.5	61.3
1896.....	57.0	62.5	60.4	56.5	62.3	63.7	65.3	64.9	64.9	65.7	58.5	57.7	61.6
1897.....	53.2	55.3	53.9	65.1	63.6	65.8	65.1	62.8	67.5	64.3	58.5	60.2	60.9
1898.....	51.8	58.1	56.8	61.4	57.2	66.1	61.8	62.2	64.6	68.4	61.6	54.9	60.4
1899.....	58.3	58.0	57.9	61.2	58.3	63.4	61.5	63.5	65.1	66.1	61.0	54.8	60.7
1900.....	54.7	59.5	61.3	59.5	63.5	63.7	64.6	65.5	70.4	85.1	62.2	55.1	62.1
1901.....	54.6	57.9	62.7	58.1	59.6	64.2	62.0	61.1	64.2	69.0	62.2	58.6	61.2
1902.....	57.1	57.3	57.6	60.2	60.5	63.6	65.7	65.9	67.8	64.7	59.5	55.3	60.8
1903.....	52.6	55.2	56.9	60.0	61.8	65.3	63.6	63.9	68.4	69.1	60.8	57.5	61.3
1904.....	56.3	55.1	56.7	63.3	66.2	66.0	62.2	62.0	71.3	68.2	63.3	56.1	62.1
1905.....	56.1	59.9	62.8	61.7	61.2	61.0	65.7	63.8	67.2	68.1	62.4	56.	62.2
1906.....	57.4	60.1	59.5	63.2	58.1	66.9	64.2	63.7	67.2	69.9	61.8	54.2	62.6
1907.....	51.4	59.9	56.5	63.0	62.3	63.0	63.8	64.8	66.4	66.8	64.7	56.9	61.6
1908.....	55.5	56.4	62.5	63.7	62.2	62.1	62.9	62.8	68.0	66.3	61.7	51.5	61.3
1909.....	55.3	56.5	57.3	65.0	60.9	62.1	64.4	63.7	69.5	66.1	60.0	54.2	61.2
1910.....	50.9	55.8	61.6	64.3	65.9	61.8	62.1	62.1	64.6	69.4	60.3	58.6	61.4
1911.....	55.3	54.9	60.3	59.0	61.9	60.7	61.9	62.9	66.8	68.5	65.1	57.6	61.2
1912.....	56.5	60.6	57.2	58.1	63.3	57.5	63.5	60.5	70.5	68.1	62.4	57.1	62.6
1913.....	53.6	58.5	59.9	62.0	62.6	63.8	66.9	68.5	72.8	70.0	59.9	55.3	62.8
1914.....	56.2	60.0	65.3	64.7	61.4	62.7	62.1	63.4	67.5	69.3	66.8	58.4	62.7
1915.....	51.1	57.9	65.0	62.7	63.1	66.0	67.1	68.4	69.9	70.1	62.6	57.5	63.9
1916.....	51.6	62.2	64.0	65.2	62.9	64.3	67.4	65.0	70.6	73.0	61.7	54.8	62.7
1917.....	54.3	59.3	59.1	62.2	59.7	67.4	67.5	62.9	72.5	71.0	65.4	60.6	63.5
1918.....	59.0	57.9	62.3	64.4	61.0	67.1	65.3	67.5	67.7	72.1	61.4	55.9	63.5
1919.....	58.0	56.9	59.0	62.6	64.0	65.0	62.9	64.3	69.2	69.5	63.8	54.1	62.4
1920.....	52.9	59.4	59.0	62.1	62.9	67.7	64.1	66.8	67.0	67.2	60.4	55.8	62.6
1921.....	54.5	59.6	60.4	62.2	60.5	69.3	66.9	65.4	71.1	68.1	64.1	57.7	63.3
1922.....	52.6	55.8	58.1	60.3	66.2	67.0	65.8	67.2	71.6	67.1	60.3	55.4	62.3
1923.....	53.1	59.0	64.9	62.5	64.1	63.1	67.4	68.1	71.6	69.6	68.1	56.6	64.0
Means.....	54.9	57.7	60.0	61.7	62.8	65.1	64.7	64.9	68.1	67.2	62.2	56.1	62.1

## EXTREME TEMPERATURES BY YEARS.

Year.	Absolute Maximum.	Date.	Absolute Minimum.	Date.
1871.....	84	October	...	.....
1872.....	92	June	41	December
1873.....	79	October	40	February
1874.....	89	September 14	39	January
1875.....	82	September 20	39	January 16 †
1876.....	93	June 12	36	January 21
1877.....	92	June 11	42	January 13 †
1878.....	78	May 24†	39	January 4
1879.....	89	August 30	34	December 24
1880.....	84	May 27	37	January 23
1881.....	83	July 4	40	March 13 †
1882.....	83	September 21	34	December 31
1883.....	95	June 5 †	35	February 3 †
1884.....	83	July 10	35	February 7
1885.....	87	September 21	43	January 3
1886.....	94	September 8	41	January 2 †
1887.....	97	May 28	33	February 5
1888.....	93	July 15	29	January 15
1889.....	89	September 24	39	February 15†
1890.....	86	October 27 †	36	January 5 †
1891.....	100	June 29	37	December 25
1892.....	92	August 17	38	December 10
1893.....	90	June 3	36	January 24
1894.....	94	September 22	36	January 6
1895.....	89	May 11 †	38	January 27
1896.....	91	May 26	33	March 3
1897.....	92	September 16	38	February 20
1898.....	89	June 4	36	January 25
1899.....	94	October 8	34	February 4
1900.....	92	September 22	40	December 31
1901.....	91	October 12	37	January 1
1902.....	83	September 29	38	January 14
1903.....	96	June 6	37	January 15 †
1904.....	101	September 8	38	December 20
1905.....	98	July 7	39	December 31
1906.....	85	October 27	40	November 29 †
1907.....	90	October 4	36	January 13
1908.....	89	September 29	35	December 20
1909.....	91	June 23	38	January 12 †
1910.....	90	May 30	36	January 3
1911.....	87	October 16	38	February 27
1912.....	94	September 18	40	January 3
1913.....	101	September 16	33	January 6
1914.....	92	September 10	41	December 15
1915.....	86	August 28	36	December 30
1916.....	87	September 27	37	January 27
1917.....	96	October 3	34	January 16
1918.....	85	October 12	38	December 31
1919.....	93	September 19	37	January 1
1920.....	92	June 19	38	January 14
1921.....	94	July 6	39	January 8
1922.....	91	September 8	32	January 19
1923.....	87	September 5	36	January 30

† Also on other dates.

## PRECIPITATION.

Monthly, Seasonal and Annual, 1849-1923.

Season.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH.	APRIL.	MAY.	JUNE.	SEASONAL	YEAR.	ANNUAL.	
1849-50..	0.00	0.00	0.00	3.14	8.66	6.20	8.34	1.77	4.53	0.46	0.00	0.00	33.10	1850	17.40	
1850-51..	0.00	0.00	0.33	0.00	0.92	1.05	0.72	0.54	1.94	1.23	0.67	0.02	7.42	1851	15.60	
1851-52..	0.00	0.02	1.03	0.21	2.12	7.10	0.58	0.14	6.68	0.26	0.32	0.00	18.46	1852	27.29	
1852-53..	0.00	0.00	0.00	0.80	5.31	13.20	3.92	1.42	4.86	5.37	0.38	0.00	35.20	1853	21.17	
1853-54..	0.00	0.04	0.46	0.12	2.28	2.32	3.88	8.04	3.51	3.12	0.02	0.08	23.87	1854	22.45	
1854-55..	0.00	0.01	0.15	2.43	0.34	0.87	3.67	4.77	4.64	4.99	1.88	0.00	23.75	1855	26.38	
1855-56..	0.00	0.00	0.00	0.00	0.67	5.76	9.40	0.50	1.60	2.94	0.76	0.03	21.66	1856	22.31	
1856-57..	0.02	0.00	0.07	0.45	2.79	3.75	2.45	8.59	1.62	0.00	0.05	0.12	19.91	1857	20.96	
1857-58..	0.00	0.08	0.00	0.98	3.01	4.14	4.36	1.83	5.55	1.55	0.34	0.05	21.81	1858	23.46	
1858-59..	0.05	0.16	0.00	2.74	0.69	6.14	1.28	6.32	3.02	0.27	1.55	0.00	22.22	1859	21.39	
1859-60..	0.00	0.02	0.03	0.05	7.28	1.57	1.64	1.60	3.99	3.14	2.86	0.09	22.27	1860	21.18	
1860-61..	0.21	0.00	0.00	0.91	0.58	6.16	2.47	3.72	4.08	0.51	1.00	0.08	19.72	1861	25.52	
1861-62..	0.00	0.00	0.02	0.00	4.10	9.54	24.36	7.53	2.20	0.73	0.74	0.05	49.27	1862	33.63	
1862-63..	0.00	0.00	0.00	0.50	0.15	2.35	3.63	3.19	2.06	1.61	0.23	0.00	13.74	1863	15.10	
1863-64..	0.00	0.00	0.03	0.00	2.55	1.80	1.83	0.03	1.52	1.57	0.78	0.00	10.08	1864	21.64	
1864-65..	0.00	0.21	0.01	0.13	6.65	8.91	5.14	1.31	0.74	0.94	0.63	0.00	24.73	1865	14.06	
1865-66..	0.00	0.00	0.24	0.26	4.19	0.58	10.88	2.12	3.04	0.12	1.46	0.04	22.93	1866	36.28	
1866-67..	0.00	0.00	0.11	0.00	3.35	15.16	5.16	5.20	1.58	2.36	0.00	0.00	32.92	1867	28.64	
1867-68..	0.00	0.00	0.04	0.29	3.41	10.69	9.50	6.13	3.30	2.31	0.03	0.23	35.84	1868	30.17	
1868-69..	0.00	0.00	0.00	0.05	1.16	4.34	6.35	3.90	3.14	2.19	0.08	0.02	21.35	1869	22.59	
1869-70..	0.00	0.00	0.12	1.29	1.19	4.31	3.89	4.78	2.00	1.53	0.20	0.00	19.31	1870	16.24	
1870-71..	0.00	0.00	0.03	0.00	0.43	3.38	3.07	3.76	1.31	1.88	0.23	0.01	14.11	1871	27.53	
1871-72..	0.00	0.02	0.00	0.07	2.81	14.36	4.00	6.90	1.59	0.81	0.18	0.04	30.78	1872	22.42	
1872-73..	0.01	0.00	0.04	0.11	2.79	5.95	1.58	3.94	0.79	0.43	0.00	0.02	15.68	1873	18.56	
1873-74..	0.01	0.08	0.00	0.83	1.16	9.72	5.66	2.21	3.36	0.90	0.66	0.14	24.73	1874	22.52	
1874-75..	0.00	0.00	0.02	2.69	6.55	0.38	8.01	0.32	1.30	0.10	0.22	1.02	20.56	1875	22.63	
1875-76..	0.00	0.00	0.00	0.24	7.27	4.15	7.55	4.32	5.49	1.29	0.24	0.04	31.19	1876	23.54	
1876-77..	0.01	0.01	0.38	3.36	0.25	0.06	4.32	1.18	1.05	0.26	0.18	0.01	11.04	1877	11.93	
1877-78..	0.02	0.00	0.00	0.65	1.57	2.66	11.97	12.52	4.56	1.06	0.16	0.01	25.18	1878	33.26	
1878-79..	0.01	T.	0.55	1.27	0.57	0.58	3.52	4.90	8.75	1.89	2.35	0.05	24.44	1879	30.76	
1879-80..	0.01	0.02	T.	0.78	4.03	4.46	2.23	1.87	2.03	10.06	1.12	0.00	26.66	1880	30.07	
1880-81..	0.00	0.00	0.00	0.05	0.33	12.33	8.69	4.65	0.90	2.00	0.22	0.69	29.86	1881	23.73	
1881-82..	0.00	0.00	0.25	0.54	1.94	3.85	1.68	2.98	3.45	1.22	0.21	0.04	16.14	1882	18.67	
1882-83..	0.00	0.00	0.26	2.66	4.18	2.01	1.92	1.04	3.01	1.51	3.52	0.01	20.12	1883	15.43	
1883-84..	0.00	0.00	0.42	1.58	1.60	0.92	3.94	6.65	8.24	6.33	0.23	2.57	32.88	1884	38.82	
1884-85..	T.	0.04	0.33	2.55	0.26	7.68	2.53	0.30	1.01	3.17	0.04	0.19	18.16	1885	24.90	
1885-86..	0.06	T.	0.11	0.72	11.78	4.99	7.42	0.21	2.07	5.28	0.37	0.01	33.03	1886	20.02	
1886-87..	0.23	T.	0.01	1.43	0.84	2.07	1.90	9.24	0.84	2.30	0.06	0.07	19.04	1887	19.04	
1887-88..	T.	0.01	0.29	T.	0.99	3.34	6.31	0.94	3.08	0.11	0.38	0.27	16.74	1888	23.03	
1888-89..	0.01	0.01	0.98	0.13	3.99	5.80	1.28	0.72	7.98	0.96	2.17	0.03	23.86	1889	36.94	
1889-90..	0.01	T.	T.	7.28	2.90	13.81	9.61	5.16	4.73	1.18	1.07	0.10	45.85	1890	25.43	
1890-91..	0.02	0.00	0.31	0.00	0.00	3.25	0.58	7.26	1.96	2.44	1.25	0.11	17.58	1891	21.11	
1891-92..	0.10	0.02	0.77	0.04	5.62	2.42	2.90	6.85	1.80	1.86	T.	18.53	1892	22.08		
1892-93..	0.00	0.00	0.02	1.65	3.91	5.08	3.05	2.75	4.08	1.03	0.15	0.03	21.75	1893	17.91	
1893-94..	0.02	0.00	0.21	0.16	4.18	2.25	5.99	2.69	0.60	0.50	0.31	0.56	18.47	1894	24.32	
1894-95..	T.	0.00	1.05	1.73	0.88	9.01	6.99	2.31	1.89	1.24	0.60	0.00	25.70	1895	17.13	
1895-96..	0.01	0.00	0.77	0.11	1.78	1.43	8.14	0.28	2.88	5.16	0.72	0.00	21.25	1896	28.25	
1896-97..	0.04	0.09	0.52	1.55	4.66	4.34	2.26	4.41	4.56	0.27	0.61	0.22	23.43	1897	16.40	
1897-98..	T.	T.	0.10	1.70	1.05	1.22	1.12	2.13	0.24	0.19	1.44	0.19	9.58	1898	9.31	
1898-99..	0.00	T.	1.06	0.86	0.46	1.62	3.67	0.10	7.61	0.62	0.86	0.01	16.87	1899	23.23	
1899-1900..	0.00	T.	0.00	3.92	3.79	2.65	4.11	0.64	1.91	1.08	0.32	0.05	18.47	1900	15.33	
1900-01..	T.	T.	0.46	1.48	3.91	1.37	5.79	0.53	0.80	1.64	0.69	T.	21.17	1901	19.75	
1901-02..	T.	T.	T.	0.78	6.64	3.48	0.90	1.23	2.72	2.65	0.98	1.05	T.	18.98	1902	19.18
1902-03..	T.	T.	T.	1.70	1.98	2.32	3.73	1.76	6.28	0.56	T.	T.	18.28	1903	18.33	
1903-04..	0.00	T.	T.	1.17	4.25	1.63	1.05	5.89	6.01	1.29	0.30	T.	20.59	1904	24.72	
1904-05..	0.02	0.06	5.07	2.37	1.07	1.59	4.04	2.70	3.15	1.33	2.05	0.00	28.45	1905	16.24	
1905-06..	0.00	T.	T.	0.92	2.05	3.90	4.30	5.02	0.92	2.75	0.56	20.42	1906	26.34		
1906-07..	0.08	0.11	0.18	0.03	1.59	6.90	4.41	3.02	8.42	0.11	0.04	1.28	26.17	1907	22.47	
1907-08..	T.	0.02	0.11	1.36	0.04	3.66	4.88	5.39	0.90	0.22	0.76	0.01	17.35	1908	16.42	
1908-09..	0.02	0.01	0.13	0.61	1.84	2.15	10.51	7.53	3.27	T.	T.	T.	25.57	1909	31.36	
1909-10..	0.00	0.00	0.80	1.23	2.43	5.59	3.24	2.09	3.78	0.31	0.03	0.02	19.52	1910	12.38	
1910-11..	T.	0.00	0.05	0.65	0.48	1.73	13.79	3.02	4.57	0.89	0.28	0.03	25.49	1911	26.00	
1911-12..	T.	0.00	T.	0.28	0.60	2.54	2.47	0.41	4.10	1.38	1.47	0.81	14.06	1912	15.62	
1912-13..	T.	0.00	1.25	0.49	1.94	1.30	3.84	0.43	1.47	0.60	0.63	0.02	11.97	1913	19.05	
1913-14..	0.07	0.01	0.09	0.35	6.22	5.41	9.76	5.04	1.09	0.09	0.37	0.29	29.60	1914	24.04	
1914-15..	0.02	0.00	T.	0.29	0.70	5.49	6.74	7.36	3.02	0.62	3.17	0.00	27.41	1915	28.27	
1915-16..	0.01	0.00	0.00	0.01	0.92	6.42	14.59	3.77	1.33	0.00	0.07	T.	27.12	1916	28.09	
1916-17..	0.03	0.29	1.20	0.52	1.50	4.79	1.83	3.81	1.42	0.33	0.06	T.	15.78	1917	9.00	
1917-18..	T.	T.	0.02	0.00	0.81	0.72	0.81	5.79	2.73	0.60	T.	T.	11.48	1918	20.85	
1918-19..	T.	0.00	2.53	0.17	5.60	2.62	2.57	9.31	2.74	0.10	T.	T.	25.64	1919	19.04	
1919-20..	0.01	T.	0.39	0.27	0.44	3.21	0.26	1.23	3.25	1.36	T.	0.04	10.48	1920	18.28	
1920-21..	T.	0.00</td														

## EXTREMES OF PRECIPITATION AND WINDS.

Jan. 1, 1871 to Dec. 31, 1923.

MONTH.	PRECIPITATION.			WIND.			
	24-hr. max.	Year.	Day.	Max. vel.	Dirac- tion	Year.	Day.
January.....	4.67	1881	28-29	57	se.	1901	3
February.....	3.60	1887	4-5	52	s.	1917	24
March.....	3.31	1879	4-5	60	s.	1902	1
April.....	2.43	1896	23-24	47	n.w.	1871	23
May.....	1.42	1906	27-28	45	w.	1897	11
June.....	1.23	1884	12-13	48	sw.	1873	....
July.....	0.23	1886	16	41	w.	1898	15
August.....	0.22	1916	13-14	42	sw.	1893	2
September.....	3.58	1904	23-24	46	n.	1923	17
October.....	2.03	1889	17-18	44	ne.	1906	20
November.....	3.98	1874	22-23	64	ne.	1906	30
December.....	3.40	1915	2-3	64	ne.	1923	1

## STATION BAROMETRIC PRESSURE - CORRECTED MEAN.

Base 29.000 Inches.

(To obtain mean station pressure add given figures to 29.000 inches).

Year.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An.
1873.....	0.959	0.899	0.979	0.934	0.781	0.818	0.773	0.802	0.750	0.860	0.910	0.860	0.860
1874.....	.926	.892	.866	.928	.821	.789	.740	.788	.733	.819	.877	.994	.851
1875.....	.888	.931	.995	.884	.803	.791	.780	.761	.793	.851	.843	.966	.857
1876.....	.870	.920	.838	.914	.837	.766	.763	.737	.757	.817	.913	.920	.837
1877.....	.894	.914	.844	.831	.754	.772	.725	.709	.737	.832	.934	.859	.825
1878.....	.848	.780	.856	.752	.751	.734	.724	.710	.780	.815	.906	.927	.801
1879.....	.859	.830	.907	.865	.903	.721	.743	.682	.776	.852	.922	.945	.850
1880.....	.956	.996	.923	.865	.877	.805	.778	.725	.786	.869	.962	.939	.864
1881.....	.947	.954	.903	.846	.791	.784	.793	.761	.741	.861	.963	.993	.861
1882.....	.954	.979	.923	.905	.825	.775	.817	.783	.794	.855	.932	.991	.878
1883.....	1.057	.947	.854	.885	.815	.795	.795	.785	.813	.767	.823	.948	.965
1884.....	.953	.839	.775	.809	.806	.803	.791	.763	.788	.820	.895	.779	.818
1885.....	.979	.963	.920	.815	.781	.838	.798	.788	.739	.510	.802	.961	.845
1886.....	.906	.917	.888	.810	.875	.781	.754	.743	.761	.887	.986	1.044	.859
1887.....	1.011	.866	.965	.870	.854	.733	.820	.715	.756	.815	.888	.975	.856
1888.....	.932	.916	.845	.889	.786	.774	.813	.751	.741	.806	.844	.873	.831
1889.....	.915	.949	.795	.870	.816	.764	.769	.744	.783	.827	.923	.821	.831
1890.....	.932	.925	.934	.902	.816	.840	.802	.788	.773	.829	.921	.967	.868
1891.....	1.026	.809	.909	.884	.817	.773	.768	.778	.801	.876	.941	.945	.869
1892.....	.943	.864	.855	.952	.822	.812	.823	.782	.833	.852	.850	.965	.865
1893.....	.928	.982	.856	.966	.858	.820	.779	.758	.789	.905	.993	1.021	.888
1894.....	1.021	1.015	.957	.934	.798	.850	.840	.806	.775	.858	.954	.883	.891
1895.....	.882	.963	.911	.948	.856	.814	.809	.772	.862	.838	.917	1.057	.876
1896.....	.893	1.015	.895	.900	.890	.795	.783	.841	.771	.808	.927	.974	.874
1897.....	.933	.922	.918	.935	.819	.789	.788	.804	.834	.870	.992	1.052	.888
1898.....	.996	.954	.913	.888	.828	.787	.792	.763	.780	.863	.936	1.054	.890
1899.....	.994	1.018	.907	.887	.881	.795	.790	.796	.842	.845	.896	.987	.886
1900.....	.983	.934	.870	.847	.845	.805	.744	.807	.802	.867	.896	1.039	.876
1901.....	.949	.901	.969	.919	.845	.795	.757	.812	.769	.874	.956	1.044	.883
1902.....	1.002	.903	.911	.914	.855	.752	.860	.812	.780	.848	.912	.976	.872
1903.....	1.010	.951	.857	.898	.826	.805	.836	.783	.798	.900	.960	1.038	.891
1904.....	1.084	.924	.878	.916	.805	.805	.806	.841	.812	.879	.958	1.010	.893
1905.....	.956	.837	.850	.825	.817	.791	.801	.823	.801	.871	.830	1.050	.858
1906.....	.973	.904	.844	.974	....	.783	.770	.747	.808	.883	.922	.937	....
1907.....	.866	.961	.832	.880	.827	.799	.788	.774	.830	.814	.962	.950	.857
1908.....	.993	.909	.970	.871	.848	.809	.784	.751	.803	.865	.912	.970	.871
1909.....	.818	.912	.870	.891	.837	.801	.792	.767	.789	.908	.960	.870	.852
1910.....	.995	1.046	.899	.910	.875	.815	.769	.788	.851	.920	.938	.887	....
1911.....	.894	.893	.851	.885	.839	.839	.796	.804	.807	.816	.887	.974	.966
1912.....	.965	.992	.802	.888	.845	.795	.822	.789	.790	.848	.961	1.069	.880
1913.....	.950	.842	.700	.889	.835	.797	.808	.791	.768	.853	.876	.928	.840
1914.....	.872	.941	.901	.882	.829	.803	.816	.793	.802	.819	.906	.846	.851
1915.....	.864	.810	.900	.815	.800	.826	.761	.758	.749	.803	.972	.918	.835
1916.....	.790	.933	.928	.907	.844	.799	.759	.769	.789	.873	.998	.907	.858
1917.....	.996	.934	1.031	.883	.836	.836	.788	.719	.804	.853	.981	.893	.892
1918.....	.960	.902	.880	.851	.837	.729	.789	.782	.787	.850	.909	.942	.861
1919.....	1.000	.913	.924	.889	.707	.810	.780	.821	.730	.834	.897	.952	.860
1920.....	.959	.914	.860	.854	.799	.766	.852	.761	.802	.846	.931	.933	.855
1921.....	.946	.986	.896	.907	.805	.783	.772	.806	.759	.852	.941	.888	.862
1922.....	.946	.880	.939	.918	.839	.805	.824	.791	.761	.823	.918	.940	.865
1923.....	.964	.964	.951	.837	.828	.778	.791	.804	.778	.831	.896	.975	.866
Means.....	.946	.926	.892	.886	.827	.792	.787	.779	.782	.849	.925	.961	.863